Performance Data Sheet

AWG5522EVA

General Information

Model	AWG5522EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	4750	4090					
	Watts	821	820					
	Amps	4.01	4.01					
	Lb/h	61.0	55.1					
-10	Btu/h	5970	5250	4520				
	Watts	890	896	897				
	Amps	4.32	4.35	4.35				
	Lb/h	76.3	70.0	63.1				
-5	Btu/h	7270	6480	5680	4880			
	Watts	954	968	977	978			
	Amps	4.61	4.67	4.71	4.72			
	Lb/h	92.4	85.8	78.5	70.6			
0	Btu/h	8660	7800	6930	6050	5170		
	Watts	1010	1030	1050	1060	1060		
	Amps	4.87	4.97	5.05	5.10	5.10		
	Lb/h	110	103	94.9	86.6	77.7		
5	Btu/h	10200	9220	8270	7300	6350		
	Watts	1060	1100	1120	1150	1160		
	Amps	5.11	5.24	5.37	5.47	5.52		
	Lb/h	128	120	112	104	94.3		
10	Btu/h	11800	10800	9710	8660	7610	6590	5590
	Watts	1110	1150	1190	1220	1250	1260	1250
	Amps	5.31	5.49	5.67	5.82	5.92	5.96	5.92
	Lb/h	147	140	131	122	112	102	90.9
15	Btu/h	13500	12400	11300	10100	8990	7860	6770
	Watts	1150	1200	1250	1300	1330	1360	1360
	Amps	5.49	5.72	5.94	6.14	6.31	6.41	6.43
	Lb/h	168	160	151	141	131	120	109
20	Btu/h	15500	14200	13000	11700	10500	9250	8050
	Watts	1180	1250	1310	1370	1420	1450	1470
	Amps	5.63	5.91	6.19	6.45	6.67	6.84	6.93
	Lb/h	191	182	173	163	152	141	129

25	Btu/h	17500	16200	14800	13500	12100	10800	9440
	Watts	1210	1280	1360	1430	1490	1550	1580
	Amps	5.74	6.07	6.41	6.73	7.02	7.25	7.42
	Lb/h	215	206	196	185	174	162	150
30	Btu/h	19800	18300	16800	15300	13900	12400	11000
	Watts	1220	1310	1400	1490	1570	1630	1690
	Amps	5.81	6.20	6.60	6.99	7.34	7.65	7.89
	Lb/h	241	231	221	210	198	186	173
35	Btu/h	22200	20600	19000	17400	15800	14200	12600
	Watts	1230	1330	1440	1540	1630	1720	1790
	Amps	5.84	6.30	6.76	7.21	7.64	8.02	8.34
	Lb/h	269	259	248	237	224	212	198
40	Btu/h	24800	23100	21400	19600	17900	16200	14500
	Watts	1230	1350	1460	1580	1690	1800	1890
	Amps	5.84	6.35	6.88	7.41	7.91	8.37	8.77
	Lb/h	299	288	277	265	252	239	225
45	Btu/h	27700	25800	23900	22000	20200	18300	16500
	Watts	1220	1350	1480	1620	1750	1870	1980
	Amps	5.79	6.37	6.98	7.58	8.16	8.70	9.19
	Lb/h	331	320	309	296	283	269	254
50	Btu/h	30700	28700	26700	24700	22600	20600	18600
	Watts	1200	1350	1500	1650	1800	1940	2070
	Amps	5.70	6.36	7.03	7.71	8.37	9.00	9.57
	Lb/h	366	355	342	329	315	301	286
55	Btu/h	34000	31900	29700	27500	25300	23200	21000
	Watts	1170	1330	1500	1670	1840	2000	2150
	Amps	5.57	6.30	7.05	7.81	8.56	9.27	9.94
	Lb/h	403	391	379	365	351	336	320

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.357021E+04	1.200250E+03	5.820013E+00	1.326494E+02
C2	4.125821E+02	2.732807E+00	1.281928E-02	3.994811E+00
C3	-2.552569E+01	-1.123546E+01	-5.344679E-02	1.505058E-01
C4	3.347554E+00	-2.403428E-01	-1.076931E-03	2.428242E-02
C5	-1.527573E+00	4.231478E-02	1.751488E-04	-4.329183E-03
C6	-6.020672E-01	1.650355E-01	7.692600E-04	-6.322760E-03
C7	1.752152E-02	-5.517221E-04	-2.334643E-06	1.919874E-04
C8	-1.474133E-02	1.503486E-03	6.642341E-06	-2.423385E-05
C9	-1.857001E-04	7.794679E-04	3.574937E-06	-1.856730E-05
C10	1.929724E-03	-6.740404E-04	-3.116849E-06	1.041964E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWG5522EVA

General Information

Model	AWG5522EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	5480	4780					
	Watts	1050	1050					
	Amps	4.05	4.05					
	Lb/h	70.7	64.3					
-10	Btu/h	6800	6010	5220				
	Watts	1120	1130	1130				
	Amps	4.34	4.36	4.37				
	Lb/h	87.2	80.2	72.8				
-5	Btu/h	8270	7390	6500	5630			
	Watts	1190	1210	1220	1230			
	Amps	4.61	4.67	4.71	4.71			
	Lb/h	105	97.9	89.8	81.3			
0	Btu/h	9910	8930	7940	6960	6000		
	Watts	1260	1290	1310	1320	1320		
	Amps	4.87	4.96	5.04	5.08	5.08		
	Lb/h	125	117	109	99.5	89.9		
5	Btu/h	11700	10600	9530	8430	7360		
	Watts	1330	1360	1390	1420	1430		
	Amps	5.12	5.24	5.36	5.44	5.49		
	Lb/h	147	139	130	120	109		
10	Btu/h	13700	12500	11300	10100	8880	7720	6610
	Watts	1390	1440	1480	1510	1530	1540	1540
	Amps	5.34	5.50	5.66	5.79	5.89	5.92	5.88
	Lb/h	171	162	152	142	131	119	108
15	Btu/h	15900	14500	13200	11900	10600	9270	8030
	Watts	1450	1500	1550	1600	1640	1660	1670
	Amps	5.55	5.75	5.95	6.13	6.27	6.36	6.38
	Lb/h	197	187	177	166	154	142	130
20	Btu/h	18200	16800	15300	13800	12400	11000	9600
	Watts	1500	1560	1630	1680	1730	1770	1790
	Amps	5.72	5.97	6.22	6.44	6.64	6.78	6.86
	Lb/h	225	215	204	192	180	167	154

25	Btu/h	20800	19200	17600	16000	14400	12800	11300
	Watts	1540	1620	1690	1760	1830	1880	1920
	Amps	5.88	6.17	6.46	6.74	6.99	7.19	7.33
	Lb/h	255	244	233	220	208	194	180
30	Btu/h	23500	21800	20100	18300	16600	14900	13200
	Watts	1570	1660	1750	1840	1920	1980	2040
	Amps	6.00	6.34	6.68	7.01	7.32	7.58	7.78
	Lb/h	287	276	264	251	237	223	209
35	Btu/h	26500	24600	22700	20900	19000	17100	15300
	Watts	1600	1700	1800	1910	2000	2080	2150
	Amps	6.09	6.48	6.87	7.26	7.62	7.94	8.21
	Lb/h	321	309	297	284	270	255	239
40	Btu/h	29700	27700	25600	23600	21500	19500	17500
	Watts	1610	1730	1850	1960	2070	2180	2260
	Amps	6.15	6.58	7.03	7.48	7.90	8.29	8.62
	Lb/h	357	345	332	319	304	289	273
45	Btu/h	33100	30900	28700	26500	24300	22100	19900
	Watts	1610	1750	1880	2010	2140	2260	2370
	Amps	6.16	6.65	7.16	7.66	8.15	8.60	9.00
	Lb/h	396	384	370	356	341	325	308
50	Btu/h	36700	34300	32000	29600	27200	24900	22600
	Watts	1600	1750	1900	2050	2200	2340	2460
	Amps	6.14	6.68	7.25	7.81	8.37	8.88	9.36
	Lb/h	437	424	410	396	380	363	346
55	Btu/h	40500	38000	35500	33000	30400	27900	25400
	Watts	1580	1750	1920	2080	2250	2400	2550
	Amps	6.07	6.68	7.30	7.93	8.55	9.14	9.68
	Lb/h	480	467	453	438	421	404	386

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.592040E+04	1.285866E+03	5.685559E+00	1.576009E+02
C2	4.960643E+02	4.702868E+00	1.775904E-02	4.712660E+00
C3	-3.716060E+01	-6.915184E+00	-4.725643E-02	6.721418E-02
C4	4.356111E+00	-1.883743E-01	-6.627826E-04	3.459657E-02
C5	-1.708169E+00	5.451921E-02	1.520575E-04	-2.419264E-03
C6	-6.643480E-01	1.283569E-01	6.871022E-04	-7.056848E-03
C7	8.189045E-03	-1.271238E-03	-3.614413E-06	6.529661E-05
C8	-1.190276E-02	1.458199E-03	4.251793E-06	3.396469E-05
C9	-2.294020E-03	7.039706E-04	3.217287E-06	-5.012420E-05
C10	2.375288E-03	-5.683347E-04	-2.793571E-06	1.495904E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature